

# FILE NOTATIONS

Entered in NID File .....  
Location Map Pinned .....  
Card Indexed .....

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

## COMPLETION DATA:

Date Well Completed .....

OW..... WW..... TA.....

GW..... OS..... PA.....

Location Inspected ..

Bond released

State or Fee Land ...

## LOGS FILED

Driller's Log.....

Electric Logs (No.) .....

E..... I..... Dial I Lat..... GR-M..... Micro.....

EHG Sonic CA..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

## INTEROFFICE COMMUNICATION

FROM R. G. Myers

Rock Springs, Wyoming  
CITY STATE

TO B. W. Croft


DATE August 29, 1973

SUBJECT Tentative Plan to Drill  
Piute Knoll Well No. 2  
San Juan County, Utah

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated July 26, 1973.

RGM/gm

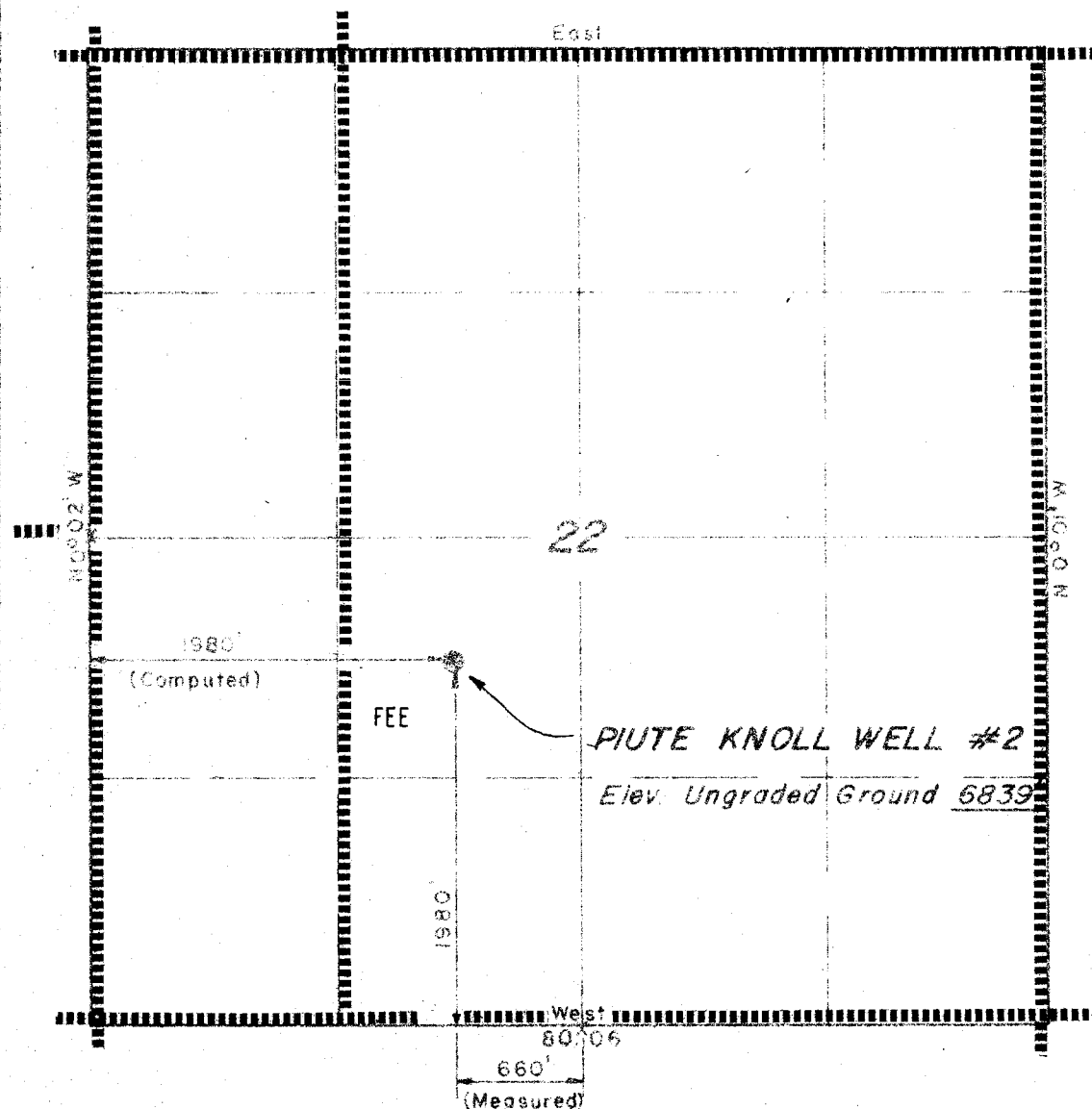
Attachment

cc: J. T. Simon  
L. A. Hale (6)  
J. E. Adney  
Geology (2)  
D. E. Dallas (4)  
C. F. Rosene  
B. M. Steigleder  
E. A. Farmer  
U.S.G.S.  
State   
Paul Zubatch  
P. E. Files (4)

T33S, R25E, S.L.B. & M.

PROJECT  
MOUNTAIN FUEL SUPPLY COMPANY

Well location, PIUTE KNOLL WELL #2,  
located as shown in the NE 1/4  
SW 1/4 Section 22, T33S, R25E,  
S.L.B. & M., San Juan County, Utah



X = Section Corners Located

WORK ORDER N° 21523



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY  
SUPERVISION AND THAT THE SAME ARE CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR  
REGISTERED NO 3154  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q -- 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	14 AUGUST, 1973
PARTY	G.S. & SS	REFERENCES	GLO Plat
WEATHER	HOT	FILE	Mountain Fuel M-11236

From: T. M. Colson

Rock Springs, Wyoming

To: R. G. Myers

August 29, 1973

Tentative Plan to Drill  
Piute Knoll Well No. 2  
San Juan County, Utah

This well will be drilled to total depth by the \_\_\_\_\_ Drilling Company. One work order has been originated for the drilling and completion of the well, namely 21523-2, Drill Piute Knoll Well No. 2. This well is located in the NE SW Sec. 22, T. 33 S., R. 25 E., San Juan County, Utah. The well will be drilled to a total depth of 6100 feet to test the Paradox formation. Surface elevation is at 6839 feet.

1. Drill 13-3/4-inch hole to approximately 470 feet KBM.
2. Run and cement approximately 450 feet of 10-3/4-inch O.D., 32.75-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 370 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 10-3/4-inch O.D. casing in 13-3/4-inch hole with cement returned to surface. Cement will be treated with 1692 pounds of Dowell D43A. Plan on leaving a 20 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars and the guide shoe will be spot welded in the field. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 75 barrels of mud. Capacity of the 10-3/4-inch O.D. casing is 45 barrels.
3. After a WOC time of 6 hours, remove landing joint. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 10-3/4-inch O.D., 8 round thread casing. Install a 2-inch extra heavy nipple, 6-inches long, and a WKM Figure B138 (2000 psi WOG, 4000 psi test) valve on one side of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install

adequate preventers. After a WOC time of 12 hours, pressure test surface casing and all preventer rams to 1000 psi for 15 minutes, using rig pump and drilling mud. The burst pressure rating for the 10-3/4-inch O.D. casing is 1820 psi.

4. Drill 9-7/8-inch hole to tentative depth of 2700 feet. A mud desander and desilter will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. A fully manned logging unit will be used from bottom of surface casing to total depth. The logging unit will be responsible for catching 10 foot samples to total depth. The mud system will consist of properties adequate to allow the running of drill stem tests. The mud weight should be held as low as practical. Six drill stem tests are anticipated starting at a depth of approximately 4400 feet. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Dakota	Surface
Morrison	260
Summerville	785
Curtis	1005
Entrada	1100
Carmel	1250
Navajo	1275
Kayenta	1575
Wingate	1775
Chinle	2015
Shinarump	2550
Moenkopi	2630
Cutler	2670
Honaker Trail	4410
Paradox	4940
Upper Ismay	5490
Lower Ismay	5790
"B" Marker	5905
Desert Creek	5975
Salt	6025
Total Depth	6100

5. After reaching a depth of 2700 feet and if serious lost circulation has been encountered, proceed to Step 6. If lost circulation has not been a serious problem, reduce the hole size to 7-7/8-inch and proceed to Step 11.

Note: During the drilling of Piute Knoll No. 1, which is one mile southeast of Piute Knoll No. 2, several zones of lost circulation were encountered between 1338 feet and 2242 feet. 2000 barrels mud were lost in Piute Knoll Well No. 1. No mud was lost below 2242 feet.

6. Run a dual induction laterolog (2-inch linear, 5-inch logarithmic) and integrated borehole compensated gamma ray sonic-caliper log from surface pipe to total depth.
7. Go in hole to total depth with 9-7/8-inch bit and drill pipe to condition mud and hole prior to running 8-5/8-inch O.D. casing. Pull bit laying down drill collars. The mud weight should not exceed 9.5 ppg prior to running the 8-5/8-inch O.D. casing.
8. Rams will not be changed in the ram type preventer since the Hydril preventer will be on the wellhead. Run 8-5/8-inch O.D. casing as outlined in Item No. I, General Information. Cement casing with sufficient regular Type "G" cement in order to bring the cement level outside the 8-5/8-inch O.D. casing approximately 1000 feet above the bottom of the casing or above any potential producing zones. A Baker 8-5/8-inch O.D. Type "G" float collar and 8-5/8-inch guide shoe will be run as floating equipment. The float shoe, shoe joint, float collar, and the next four joints of casing will be locked together in the field at the time the casing is being run using Halliburton thread locking compound. Touch bottom and pick the casing up one foot. Circulate 200 barrels of drilling mud prior to beginning cementing operations. Capacity of the 8-5/8-inch O.D. casing is approximately 164 barrels. Rotate casing while circulating, mixing, and displacing cement. Displace cement with mud.

9. Immediately after cementing operations are completed, land the 8-5/8-inch O.D. casing with full weight of casing on slips and record indicator weight. Cut off the 8-5/8-inch O.D. casing and install a 10-inch 3000 psi by 10-inch 3000 psi casing spool with 2-inch WKM 3000 psi wing valves. Pressure test seals to 1000 psi for 5 minutes. The collapse pressure for 8-5/8-inch O.D., 32-pound, K-55 casing is 2740 psi. Install a 10-inch 3000 psi preventer with blind rams on bottom and 4-1/2-inch pipe rams on top, a Hydril preventer, and finish nipping up.
10. After a WOC time of 24 hours, pressure test casing and preventer to 1000 psi for 15 minutes using mud and rig pump. The internal pressure rating for new 8-5/8-inch O.D., 32-pound, K-55 casing is 3930 psi.
11. Go in hole with 7-7/8-inch bit and adequate drill collars. Drill ahead to total depth of 6100 feet or to such other depth as may be recommended by the Geological Department.
12. Run a dual induction laterolog (with 2-inch linear, 5-inch logarithmic) integrated sonic gamma ray caliper log from the bottom of the 8-5/8-inch O.D. casing to total depth drilled, and a sidewall neutron log from 4410 feet to total depth.
13. Assuming commercial quantities of gas and/or oil are present, go into hole with a 7-7/8-inch bit and condition hole to run 4-1/2-inch O.D. casing. Pull and lay down drill pipe and drill collars.
14. Run 4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, ST&C casing as outlined in Item No. I, General Information. Run the casing to bottom and pick up one foot. A Larkin filrite float shoe and float collar will be used as floating

equipment. The casing will be cemented with 50-50 Pozmix cement. Cement requirements will be the actual volume as calculated from the caliper log plus 20% excess. Circulate 150 barrels mud prior to beginning cementing operations. Capacity of the 4-1/2-inch O.D. casing is 94 barrels. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water.

15. Immediately after cementing operations are completed, land the 4-1/2-inch O.D. casing with full indicator weight on slips. Cut off 4-1/2-inch O.D. casing and install a 6-inch 3000 psi by 10-inch 3000 psi tubing spool. Pressure test seals to 2000 psi for 5 minutes. The collapse pressure for 4-1/2-inch O.D., 11.6-pound, K-55 casing is 4540 psi. Install a steel plate over tubing spool and release rig.
16. Rig up a contract workover rig. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
17. Rig up Schlumberger and run a cement bond and PFC log from plugged back depth to the top of the cement behind the 4-1/2-inch O.D. casing.
18. Run 2-3/8-inch O.D. tubing. Using Halliburton pump truck, pressure test casing and pipe rams to 3000 psi for 15 minutes. The minimum internal yield pressure for 4-1/2-inch O.D., 11.6-pound, K-55 is 5350 psi and the wellhead is 3000 psi working pressure, 6000 psi test. Land tubing on a H-1 hanger. Pressure test blind rams to 3000 psi for 15 minutes. Pull tubing, standing same in derrick.
19. After the above items have been evaluated, a tentative plan to complete the well will be finalized.



GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
10-3/4-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing	480	To be purchased
	<u>Intermediate Casing</u>	
8-5/8-inch O.D., 32-pound, K-55, Hydril flush joint casing	2,800	To be purchased
	<u>Production Casing</u>	
4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, ST&C casing	6,400	To be purchased
	<u>Production Tubing</u>	
2-3/8-inch O.D., 4.6-pound, J-55, seal lock tubing	6,400	To be purchased

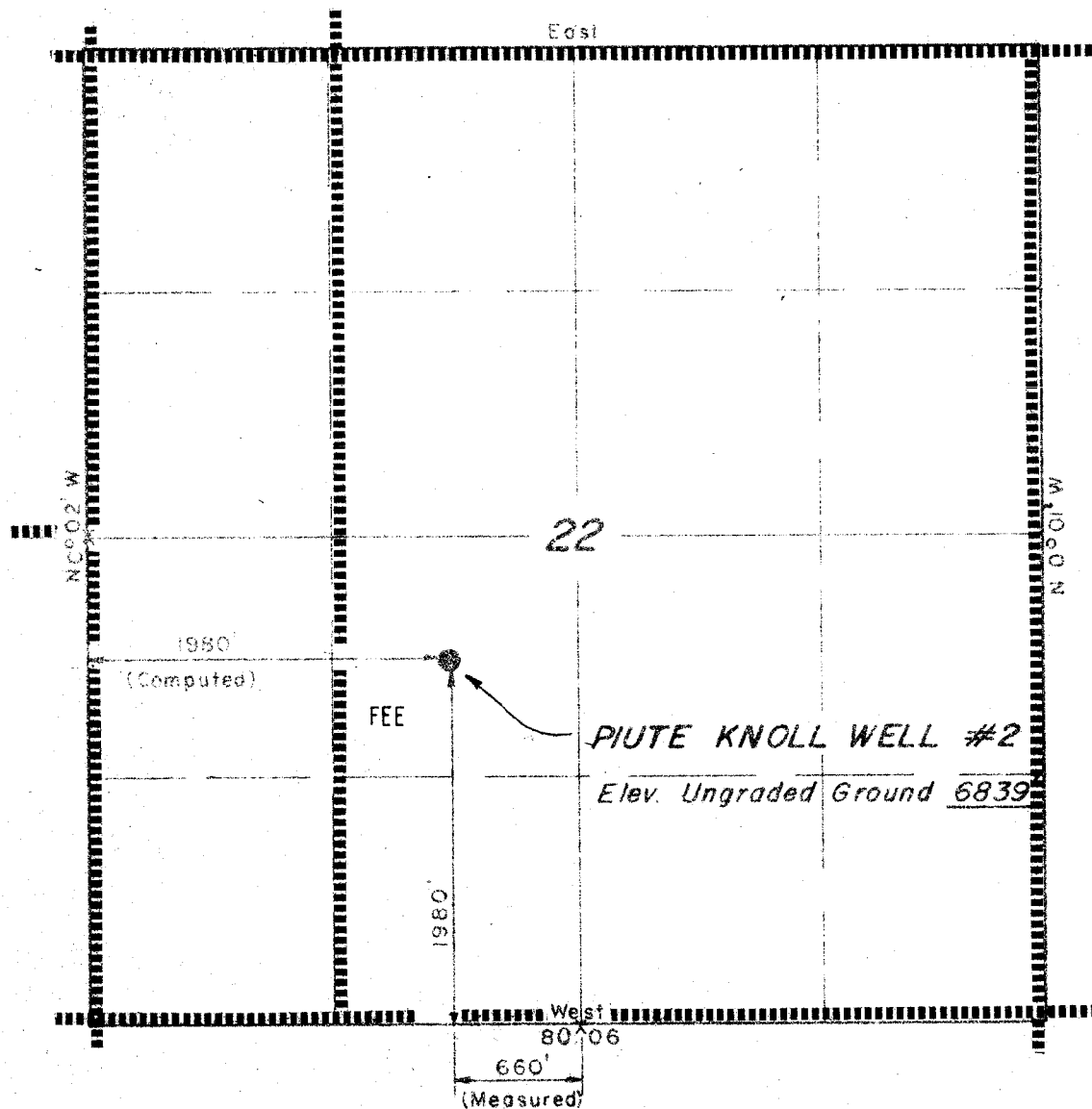
II. The salt content of the mud will be checked prior to cementing the 4-1/2-inch O.D. casing to determine if a salt saturated cement will be required.

III. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

T33S, R25E, S.L.B. & M.

PROJECT  
MOUNTAIN FUEL SUPPLY COMPANY

Well location, PIUTE KNOLL WELL #2,  
located as shown in the NE 1/4  
SW 1/4 Section 22, T33S, R25E,  
S.L.B. & M., San Juan County, Utah



X = Section Corners Located

WORK ORDER N° 21523



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR  
REGISTERED NO. 3154  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	14 AUGUST, 1973
PARTY	G.S. & SS	REFERENCES	GLO Plat
WEATHER	HOT	FILE	Mountain Fuel M-11236

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Piute Knoll

9. Well No.

2

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.  
and Survey or Area

NE SW 22-33S-25E., S1B&amp;M

12. County or Parrish 13. State  
San Juan Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil  
Well ☐Gas  
Well ☒

Other

Wildcat

Single  
Zone ☐Multiple  
Zone ☐

2. Name of Operator

Mountain Fuel Supply Company

3. Address of Operator

P. O. Box 1129, Rock Springs, Wyoming 82901

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)

At surface

1980' FSL, 1980' FWL NE SW ✓

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

10 miles east of Monticello, Utah

15. Distance from proposed\*

660'

16. No. of acres in lease

480.00

17. No. of acres assigned  
to this well

-

Location to nearest  
property or lease line, ft.  
(Also to nearest drlg. line, if any)

-

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
or applied for, on this lease, ft.

-

19. Proposed depth

6100' ✓

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

GR 6839' ungraded

22. Approx. date work will start\*

September 24, 1973

23.

## PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
13-3/4	10-3/4	32.75	450.00'	370
9-7/8	8-5/8	32	2700' if lost circulation is a problem	
7-7/8	4-1/2	11.6	to be determined	

We would like to drill the subject well to an estimated depth of 6100', anticipated formation tops are as follows: Dakota at the surface, Morrison at 260', Summerville at 785', Curtis at 1005', Entrada at 1100', Carmel at 1250', Navajo at 1275', Kayenta at 1575', Wingate at 1775', Chinle at 2015', Shinarump at 2550', Moenkopi at 2630', Cutler at 2670', Honaker Trail at 4410', Paradox at 4940', Upper Ismay at 5490', Lower Ismay at 5790', "B" Marker at 5905', Desert Creek at 5975', and salt at 6025'.

Mud will be adequate to contain formation fluids and blow out preventers will be checked daily. ✓

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed

BCW Craft

Title

Vice President,  
Gas Supply Operations

Date

Sept. 18, 1973

(This space for Federal or State office use)

Permit No.

43-037-30127

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

September 20, 1973

Mountain Fuel Supply Company  
Box 1129  
Rock Springs, Wyoming 82901

Re: Well No. Piute Knoll #2  
Sec. 22, T. 33 S, R. 25 E,  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer  
HOME: 277-2890  
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-037-30127.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sd

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>Fee</u>
2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>—</u>
3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u>		7. UNIT AGREEMENT NAME <u>—</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u>  <u>1980' FSL, 1980' FWL NE SW</u>		8. FARM OR LEASE NAME <u>Piute Knoll</u>
14. PERMIT NO. <u>43-037-30127</u>		9. WELL NO. <u>2</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>GR 6839'</u>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>NE SW 22-33S-25E., SLB&amp;M</u>
		12. COUNTY OR PARISH <u>San Juan</u>
		13. STATE <u>Utah</u>

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

### SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary historyREPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Depth 2133', fishing, now picking up wash pipe.

Spudded September 26, 1973, ran 10-3/4" casing.

18. I hereby certify that the foregoing is true and correct

SIGNED

BW Craft

TITLE

Vice President,

Gas Supply Operations

DATE

Oct. 9, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1.</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee
<b>2. NAME OF OPERATOR</b> Mountain Fuel Supply Company		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> -
<b>3. ADDRESS OF OPERATOR</b> P. O. Box 1129, Rock Springs, Wyoming 82901		<b>7. UNIT AGREEMENT NAME</b> -
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL, 1980' FWL NE SW		<b>8. FARM OR LEASE NAME</b> Piute Knoll
<b>14. PERMIT NO.</b> 43-037-30127		<b>9. WELL NO.</b> 2
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) GR 6839'		<b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat
<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> NE SW 22-33S-25E., S1B&M
<b>17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS</b> (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*  Depth 2810', preparing to log.		<b>12. COUNTY OR PARISH</b> San Juan <b>13. STATE</b> Utah

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐FULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary history ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

18. I hereby certify that the foregoing is true and correct

SIGNED

*BW Craft*

TITLE

Vice President,  
Gas Supply Operations

DATE Oct. 16, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL, 1980' FWL NE SW		8. FARM OR LEASE NAME Piute Knoll
14. PERMIT NO. 43-037-30127		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6839'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE SW 22-33S-25E., SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

#### 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

##### NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

##### SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐  
☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Depth 2810', lost circulation, set cement plugs, now drilling cement.

18. I hereby certify that the foregoing is true and correct

SIGNED

*BW Craft*

TITLE

Vice President,  
Gas Supply Operations

DATE Oct. 23, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

### SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1.</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee
<b>2. NAME OF OPERATOR</b> Mountain Fuel Supply Company		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> —
<b>3. ADDRESS OF OPERATOR</b> P. O. Box 1129, Rock Springs, Wyoming 82901		<b>7. UNIT AGREEMENT NAME</b> —
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FSL, 1980' FWL NE SW		<b>8. FARM OR LEASE NAME</b> Piute Knoll
<b>14. PERMIT NO.</b> 43-037-30127		<b>9. WELL NO.</b> 2
<b>15. ELEVATIONS</b> (Show whether DF, RT, GR, etc.) GR 6839'		<b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat
		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> NE SW 22-33S-25E., S1B&M
		<b>12. COUNTY OR PARISH</b> San Juan <b>13. STATE</b> Utah

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐  
☐

FULL OR ALTER CASING

☐  
☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF

☐  
☐  
☐

REPAIRING WELL

☐  
☐  
☐  
☐

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other) Supplementary history

☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

Depth 4375', landed 8-5/8" casing at 2783' and set with 200 sacks of cement, drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED

*BW Croft*

TITLE

Vice President,  
Gas Supply Operations

DATE

Oct. 31, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side





## CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Plute Knoll No. 2  
 FIELD Plute Knoll  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11333-3 REPORT NO. \_\_\_\_\_  
 LOCATION Sec. 22 33S-25E  
 FORMATION \_\_\_\_\_  
 INTERVAL 3300  
 SAMPLE FROM \_\_\_\_\_  
 DATE October 31, 1973

REMARKS & CONCLUSIONS: Slightly cloudy water

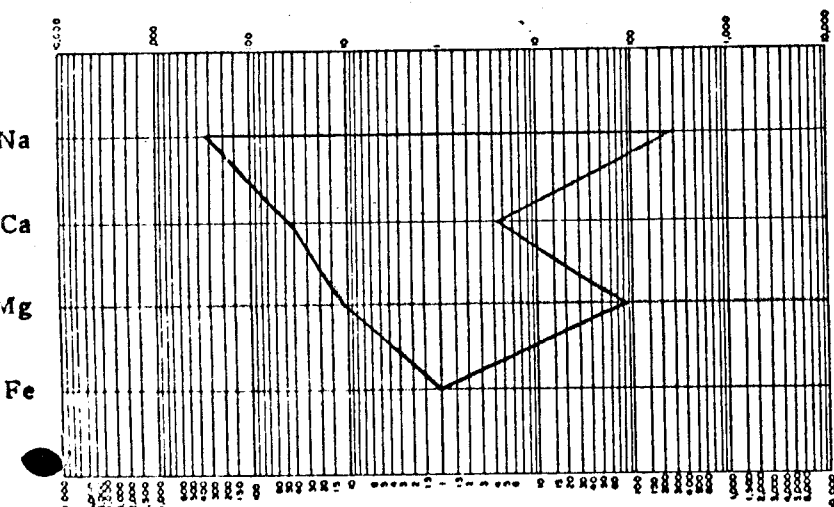
Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	6590	299.36	Sulfate	4150	86.32
Potassium	698	17.87	Chloride	9900	279.18
Lithium	-	-	Carbonate	0	-
Calcium	858	42.81	Bicarbonate	268	4.40
Magnesium	120	9.86	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations		369.90	Total Anions		369.90

Total dissolved solids, mg/l 22740  
 NaCl equivalent, mg/l 20682  
 Observed pH 7.8

Specific resistance @ 68° F.:  
 Observed 0.35 ohm-meters  
 Calculated 0.33 ohm-meters

WATER ANALYSIS PATTERNS  
 MEQ per unit

## LOGARITHMIC



Cl

HCO<sub>3</sub>SO<sub>4</sub>CO<sub>3</sub>

Na

50

Ca

5

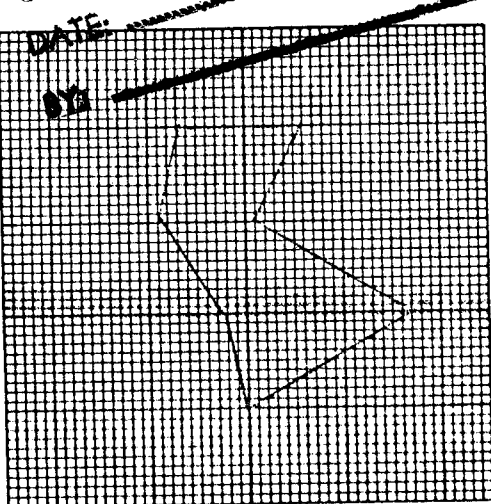
Mg

5

Fe

5

APPROVED BY THE DIVISION OF  
 OIL, GAS, AND MINING  
 STANDARD

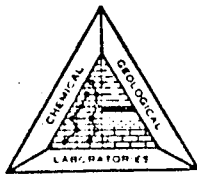


Cl

HCO<sub>3</sub>SO<sub>4</sub>CO<sub>3</sub>

(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter  
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components



## CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Piute Knoll No. 2  
 FIELD Piute Knoll  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11333-2 REPORT NO. \_\_\_\_\_  
 LOCATION Sec. 22 33S-25E  
 FORMATION \_\_\_\_\_  
 INTERVAL 2640  
 SAMPLE FROM \_\_\_\_\_  
 DATE October 31, 1973

REMARKS & CONCLUSIONS: Slightly cloudy water

Cations	mg/l	meq/l
Sodium	522	22.70
Potassium	146	3.74
Lithium	-	-
Calcium	11	0.55
Magnesium	5	0.41
Iron	-	-
Total Cations		27.40

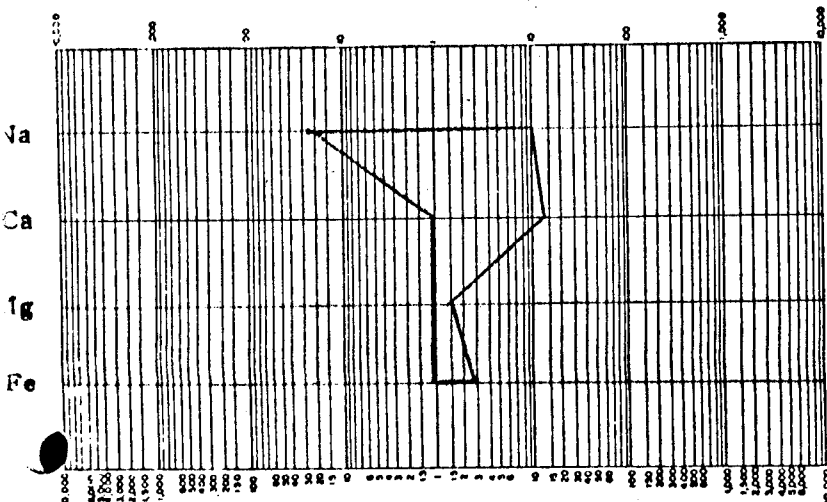
Anions	mg/l	meq/l
Sulfate	75	1.56
Chloride	370	10.43
Carbonate	84	2.80
Bicarbonate	769	12.61
Hydroxide	-	-
Hydrogen sulfide	-	-
Total Anions		27.40

Total dissolved solids, mg/l 1592  
 NaCl equivalent, mg/l 1409  
 Observed pH 8.3

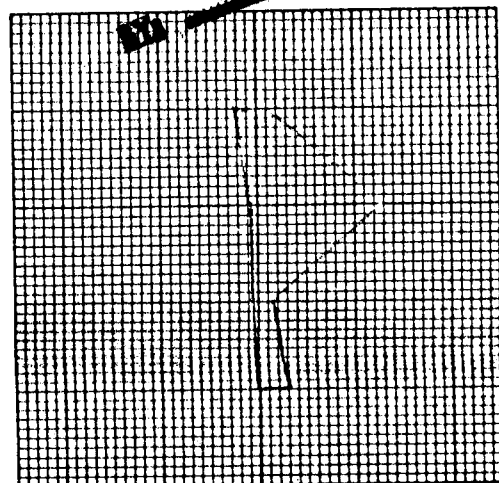
Specific resistance @ 68° F.:  
 Observed 5.20 ohm-meters  
 Calculated 4.20 ohm-meters

WATER ANALYSIS PATTERNS  
 MEQ per unit

LOGARITHMIC

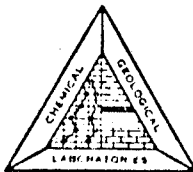


Cl 10  
 HCO<sub>3</sub> 1  
 SO<sub>4</sub> 1  
 CO<sub>3</sub> 1  
 Na  
 Ca  
 Mg  
 Fe



Cl  
 HCO<sub>3</sub>  
 SO<sub>4</sub>  
 CO<sub>3</sub>

(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter  
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components



## CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Plute Knoll No. 2  
 FIELD Wildcat  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11714-2 REPORT NO. \_\_\_\_\_  
 LOCATION Sec. 22-33S-25E  
 FORMATION Ismay  
 INTERVAL 5905-5911 and 5941-5953  
 SAMPLE FROM Prod. DST No. 1 (12-16-73)  
 DATE January 3, 1974

REMARKS & CONCLUSIONS: Mud, high water loss, with slightly cloudy filtrate

Cations	mg/l	meq/l
Sodium	132738	5774.12
Potassium	532	13.62
Lithium	-	-
Calcium	697	34.78
Magnesium	trace	-
Iron	-	-
Total Cations		5822.52

Anions	mg/l	meq/l
Sulfate	1900	39.52
Chloride	205000	5781.00
Carbonate	36	1.20
Bicarbonate	49	0.80
Hydroxide	-	-
Hydrogen sulfide	-	-
Total Anions		5822.52

Total dissolved solids, mg/l 340927  
 NaCl equivalent, mg/l 339941  
 Observed pH 8.9

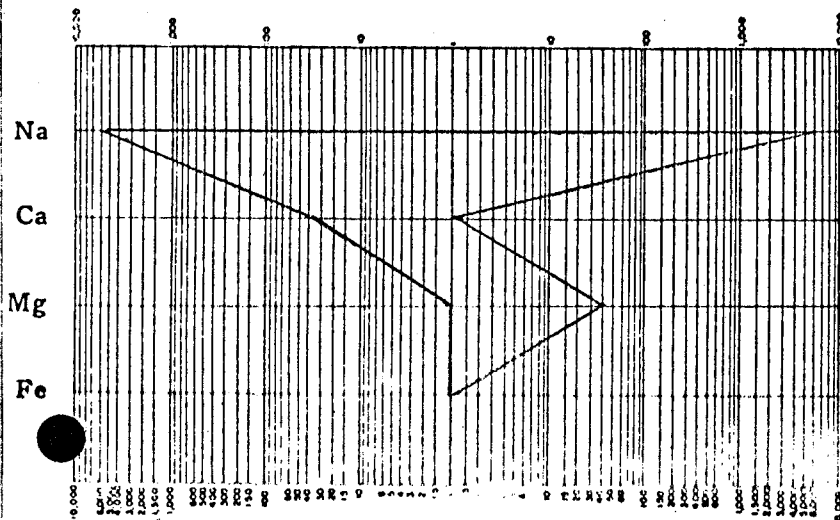
Specific resistance @ 68° F.:

Observed 0.053 ohm-meters  
 Calculated 0.048 ohm-meters

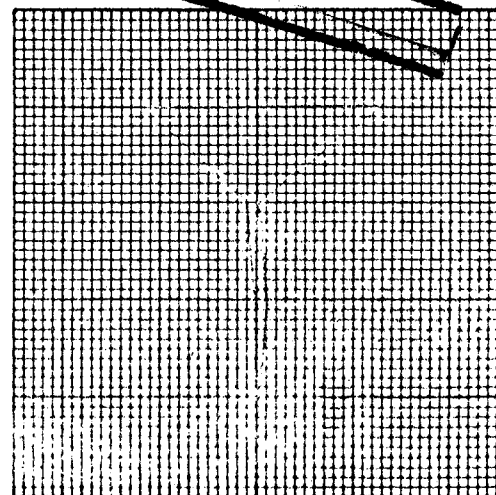
## WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



Cl Na  
500  
HCO<sub>3</sub> Ca  
50  
SO<sub>4</sub> Mg  
50  
CO<sub>3</sub> Fe  
50



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter. Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

cc: Geology  
 E. A. Farmer



## CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Piute Knoll No. 2  
 FIELD Wildcat  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11714-1 REPORT NO.  
 LOCATION Sec. 22-33S-25E  
 FORMATION Ismay  
 INTERVAL 5905-5911  
 SAMPLE FROM Swabbing (12-20-73)  
 DATE January 3, 1974

REMARKS & CONCLUSIONS: Cloudy water with slightly cloudy filtrate, foamy

Cations	mg/l	meq/l
Sodium	145490	6328.83
Potassium	417	10.68
Lithium	-	-
Calcium	647	32.29
Magnesium	trace	-
Iron	-	-
Total Cations		6371.80

Anions	mg/l	meq/l
Sulfate	1250	26.00
Chloride	225000	6345.00
Carbonate	-	-
Bicarbonate	49	0.80
Hydroxide	-	-
Hydrogen sulfide	-	-
Total Anions		6371.80

Total dissolved solids, mg/l 372828  
 NaCl equivalent, mg/l 372160  
 Observed pH 7.9

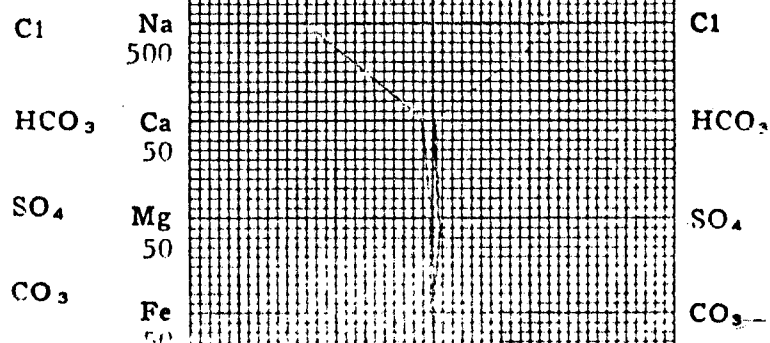
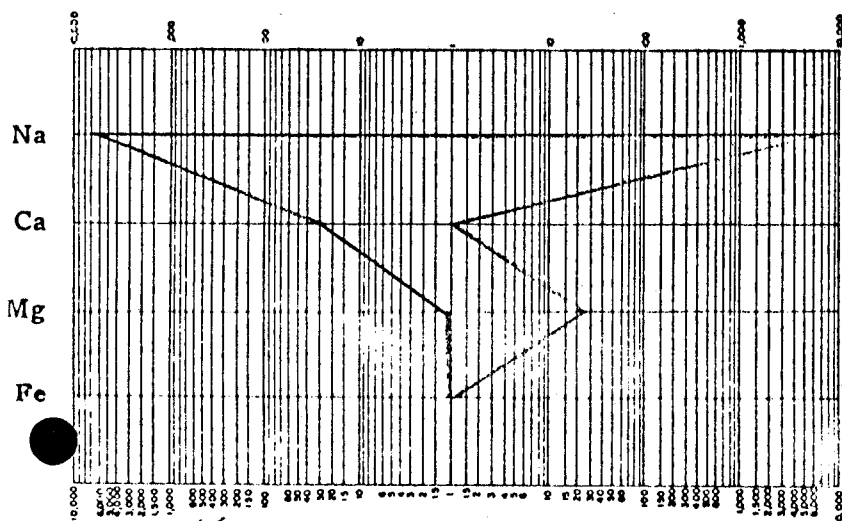
Specific resistance @ 68° F.:

Observed 0.050 ohm-meters  
 Calculated 0.046 ohm-meters

## WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



APPROVED  
 OIL, GAS, AND MINING  
 DATE: STANDARD

(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter  
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

cc: Geology  
 E.H. Palmer



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Piute Knoll No. 2  
 FIELD Wildcat  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11714-2 REPORT NO.  
 LOCATION Sec. 22-33S-25E  
 FORMATION Ismay  
 INTERVAL 5905-5911 and 5941-5953  
 SAMPLE FROM Prod. DST No. 1 (12-16-73)  
 DATE January 3, 1974

REMARKS & CONCLUSIONS: Mud, high water loss, with slightly cloudy filtrate

Cations	mg/l	meq/l
Sodium	132738	5774.12
Potassium	532	13.62
Lithium	-	-
Calcium	697	34.78
Magnesium	trace	-
Iron	-	-
Total Cations		5822.52

Anions	mg/l	meq/l
Sulfate	1900	39.52
Chloride	205000	5781.00
Carbonate	36	1.20
Bicarbonate	49	0.80
Hydroxide	-	-
Hydrogen sulfide	-	-
Total Anions		5822.52

Total dissolved solids, mg/l 340927  
 NaCl equivalent, mg/l 339941  
 Observed pH 8.9

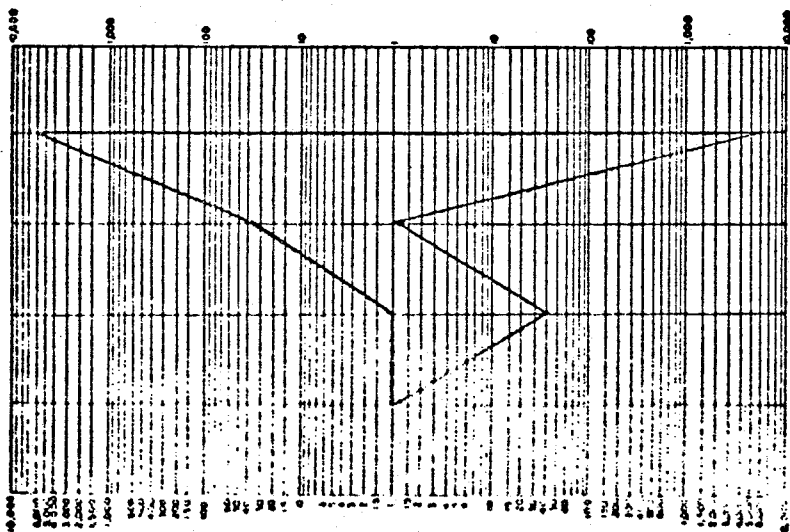
Specific resistance @ 68° F.:  
 Observed 0.053 ohm-meters  
 Calculated 0.048 ohm-meters

WATER ANALYSIS PATTERNS

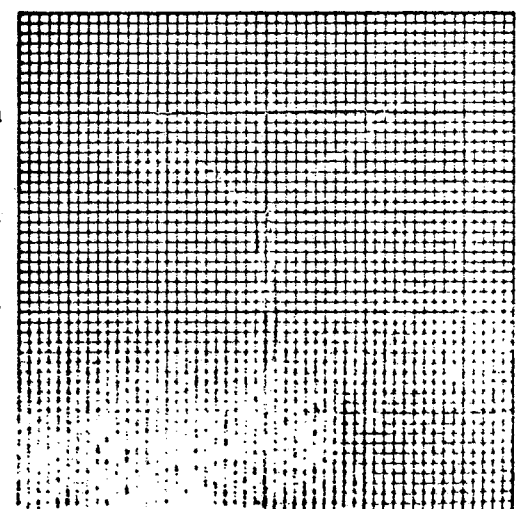
MEQ per unit

LOGARITHMIC

STANDARD



Cl Na  
 500  
 HCO<sub>3</sub> Ca  
 50  
 SO<sub>4</sub> Mg  
 50  
 CO<sub>3</sub> Fe  
 50



(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter  
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

STATE OF UTAH

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

## OIL &amp; GAS CONSERVATION COMMISSION

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1980' FSL, 1980' FWL NE SW		8. FARM OR LEASE NAME Piute Knoll
14. PERMIT NO. API 43-037-30127		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6852.30' GR 6839'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE SW 22-33S-25E., SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary history ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD 6100', PBD 5885', rig released 12-31-73, well shut in.

Set 473.08' net, 477.08' gross of 10-3/4"OD, 32.75#, K-55, casing at 488.00' KBM with 370 sacks of cement.

Set 2770.70' net, 2788.45' gross of 8-5/8"OD, 24#, K-55 casing at 2785.62' KBM with 200 sacks of cement.

DST #1: 5728-5753', Upper Ismay, IO 1/2 hr, ISI 1 1/2 hrs, FO 2 hrs, FSI 220 minutes, opened strong, no gas, reopened strong, gas at once, 1/4 hr 105 Mcf, 1 hr 170 Mcf, 2 hrs 145 Mcf, recovered 60' gas cut mud, IHP 2641, IOFP's 54-108, ISIP 1896, FOFP's 27-40, FSIP 1843, FHP 2641.

DST #2: 5805-5835', Ismay, IO 1/2 hr, ISI 1 1/2 hrs, FO 2 hrs, FSI 2 1/2 hrs, opened good, no gas, reopened fair, no gas, recovered 4' mud, IHP 2668, IOFP's 13-13, ISIP 162, FOFP's 13-13, FSIP 162, FHP 2652.

Set 6084.20' net, 6131.95' gross of 4 1/2"OD, 11.6#, J-55, casing with 348 of cement at 6097.50' KBM, rig released 11-15-73.

Rigged up work over unit on 12-13-73, perforated from 5905' to 5911' and from 5941' to 5953' with 2 holes per foot, made PDST #1, #2, &amp; #3.

- Continued on reverse

18. I hereby certify that the foregoing is true and correct

SIGNED

BW Graft

TITLE

Vice President,

Gas Supply Operations

DATE Feb. 22, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

FEB 26 1974

### Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

PDST #1: Ismay perfs 5905-5953' gross, IO  $\frac{1}{2}$  hr, ISI 1 hr, FO 4 hrs, FSI 13-3/4 hrs, opened strong, gas, reopened strong, gas in 10 minutes,  $\frac{1}{4}$  hr 14 Mcf,  $\frac{1}{2}$  hr 8 Mcf, 1 hr 16 Mcf, 2 hrs 500 Mcf with spray of salt water, 2  $\frac{1}{2}$  hrs 550 Mcf with spray of salt water, turned through separator, 3  $\frac{1}{2}$  hrs 120 Mcf, 4 hrs 120 Mcf, recovered 450' water cut mud, IHP 2506, IOFP's 133-2717 (tool plugging) ISIP 2730, FOFP's 2691-239 (tool plugging), FSIP 1664, FHP 2428.

PDST #2: Ismay perfs 5941-5953', mis-run, tool plugged.

PDST #3: Ismay perfs 5941-5953', mis-run, tool plugged.

Swabbed and flowed salt water, gas not enough to gauge, set model N bridge plug at 5885'.

Perforated from 5732' to 5746' and from 5798' to 5806' with 2 holes per foot, acidized with 5000 gallons 28% HCL, swabbed and flowed recovering load oil and acid water, gas varied from 149 to 71 Mcf.

Acidized with 10,000 gallons 28% HCL, swabbed and flowed, at end of test well making 65 Mcf of gas per day, rig released 12-31-73, well shut in.

STATE OF UTAH

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

OIL &amp; GAS CONSERVATION COMMISSION

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 1980' FSL, 1980' FWL NE SW

At top prod. interval reported below

At total depth

14. ~~PERMIT NO.~~ API DATE ISSUED  
43-037-30127

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

-

8. FARM OR LEASE NAME

Piute Knoll

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

NE SW 22-33S-25E., SLB&amp;M

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 9-26-73 16. DATE T.D. REACHED 11-13-73 17. DATE COMPL. (Ready to prod.) 12-31-73 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* KB 6852.30' GR 6839' 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD &amp; TVD 6100' 21. PLUG, BACK T.D., MD &amp; TVD 5885' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 0-6100' 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 5732-5746' and 5798-5806', Ismay 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN

BHC Sonic-GR, Sidewall Neutron Porosity, Dual Induction Laterolog

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	32.75	488.00	13-3/4	370	0
8-5/8	24	2,785.62	9-7/8	200	0
4-1/2	11.6	6097.50	7-7/8	348	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8	5,715.99'	

31. PERFORATION RECORD (Interval, size and number)

5732-5746', 5798-5806', jet, 2 holes per ft.  
Model N bridge plug @ 5885'  
5905-5911', 5941-5953', jet, 2 holes per ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5732-5806'	( 5,000 gals. 28% HCL
	(10,000 gals. 28% HCL

33.\* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
Shut in		Flowing					Shut in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
12/30-31/73	14½		→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
40	480	→		65 ✓				

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented while testing.

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logss as above, Well Completion and Well Lithology to be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

BW Craft

TITLE

Vice President,

Gas Supply Operations

DATE Feb. 22, 1974

\*(See Instructions and Spaces for Additional Data on Reverse Side)



# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 19:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
				Log tops:	0'	
				Dakota	787	
				Summerville	1106	
				Entrada	1246	
				Carmel	1277	
				Navajo	1588	
				Kayenta	1786	
				Wingate	2034	
				Chinle	2590	
				Shinarump	2734	
				Moenkopi	2778	
				Cutler	4490	
				Honaker Trail	4998	
				Paradox	5578	
				Upper Ismay	5844	
				Lower Ismay	5955	
				"B" Zone	6020	
				Desert Creek	6073'	
				Salt		

P-W

FORM OGC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION  
1588 West North Temple  
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING  
\*\*\*\*\*

Well Name & Number: PIUTE KNOLL WELL NO. 2  
Operator: MOUNTAIN FUEL SUPPLY CO. Address: P.O. Box 11368  
SALT LAKE CITY, UTAH 84139  
Contractor: LOFFLAND BROTHERS CO. Address: \_\_\_\_\_  
Location: NE 1/4 SW 1/4 Sec. 22 T. 33 N. R. 25 E. SAN JUAN County,  
Utah. (S) W

Water Sands:

	<u>Depth:</u>	<u>Volume:</u>	<u>Quality:</u>
	From- To-	Flow Rate or Head-	Fresh or Salty-
1.	<u>1530</u>	<u>APPROX 110 BWPH</u>	_____
2.	<u>1610</u>	<u>APPROX 40 BWPH</u>	_____
3.	<u>2620</u>	<u>APPROX 40 BWPH</u>	_____
4.	<u>3300</u>	<u>APPROX 50 BWPH</u>	_____
5.	_____	_____	_____

(Continue on reverse side if necessary)

Formation Tops:

NAVAJO - 1277'  
KAYENTA - 1588'  
SHINARUMP - 2590'  
CUTLER - 2778'

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform this office.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure (see back of this form)
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME -
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1980' FSL, 1980' FWL NE SW		8. FARM OR LEASE NAME Piute Knoll
14. PERMIT NO. API # 43-037-30127		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6852.30' GR 6839'		10. FIELD AND POOL, OR WILDCAT Piute Knoll
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE SW 22-33S-25E., SLB&M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD 6100', PBD 5885', Ismay perforations 5732-5746' and 5798-5806'.  
The well is depleted of commercial quantities of oil and gas and no other zones available for recompletion, we would like to plug and abandon by laying the following plugs:

Plug No. 1: 5805-5505', 25 sacks  
Shoot 4 1/2" casing at 4400' and recover casing  
Plug No. 2: 50' in and 50' out of 4 1/2" casing stub, 35 sacks  
Plug No. 3: 2833-2733', 35 sacks  
Cut 8-5/8" casing at 1200' and recover casing  
Plug No. 4: 50' in and 50' out of 8-5/8" casing, 53 sacks  
Plug No. 5: 538-438', 55 sacks  
Plug No. 6: 10 sacks into top of 10-3/4" surface casing.

Install regulation abandonment marker and clean location.

APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION

DATE 5-24-74

BY C. P. Hughes

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Craft

TITLE

Vice President,  
Gas Supply Operations

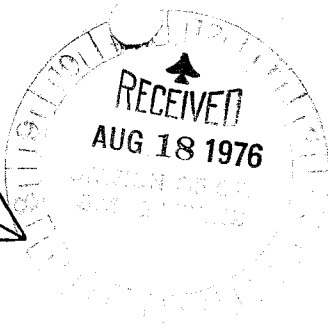
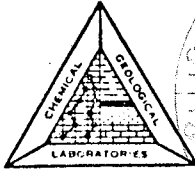
DATE May 21, 1974

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE



## CHEM LAB

## WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company  
 OPERATOR Mountain Fuel Supply Company  
 WELL NO. Piute Knoll No. 2  
 FIELD Piute Knoll  
 COUNTY San Juan  
 STATE Utah

LAB NO. 11333-1 REPORT NO. \_\_\_\_\_  
 LOCATION Sec. 22 33S-25E  
 FORMATION \_\_\_\_\_  
 INTERVAL 1620  
 SAMPLE FROM \_\_\_\_\_  
 DATE October 31, 1973

REMARKS & CONCLUSIONS: Clear water, foamy water

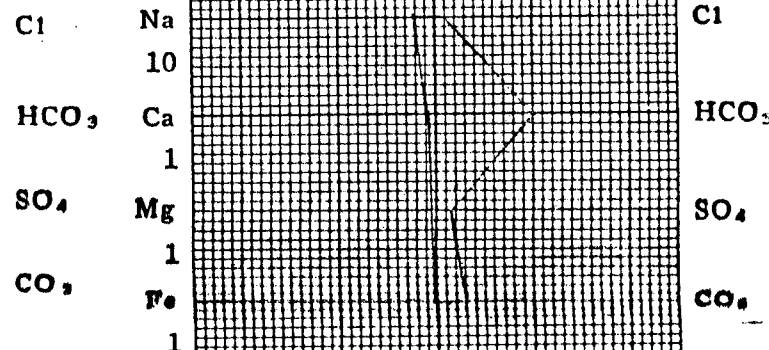
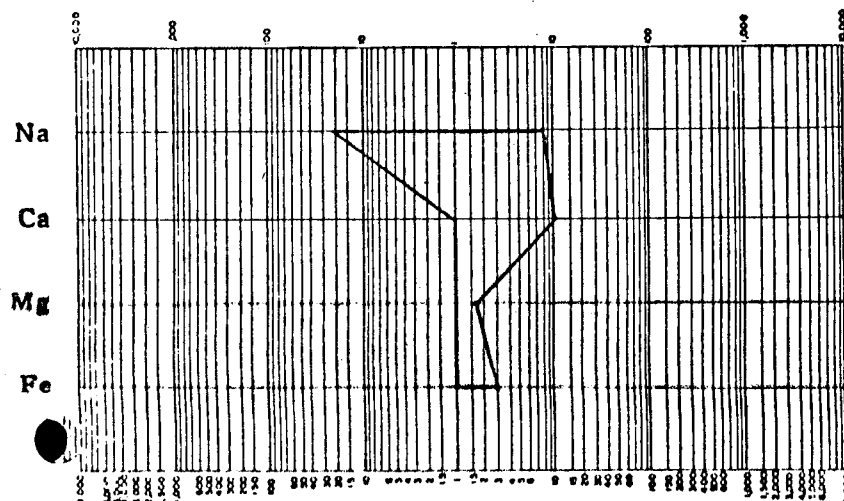
Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	419	18.21	Sulfate	79	1.64
Potassium	135	3.46	Chloride	280	7.90
Lithium	-	-	Carbonate	96	3.20
Calcium	11	0.55	Bicarbonate	598	9.81
Magnesium	4	0.33	Hydroxide	-	-
Iron	-	-	Hydrogen sulfide	-	-
Total Cations		22.55	Total Anions		22.55

Total dissolved solids, mg/l 1319  
 NaCl equivalent, mg/l 1174  
 Observed pH 8.4

Specific resistance @ 68° F.:  
 Observed 6.20 ohm-meters  
 Calculated 5.10 ohm-meters

WATER ANALYSIS PATTERNS  
 MEQ per unit

## LOGARITHMIC



APPROVED BY THE DIVISION OF  
 OIL, GAS, AND MINING  
 DATE: STANDARD

(Na value in above graphs includes Na, K, and Li)  
 NOTE: Mg/l = Milligrams per liter. Meq/l = Milligram equivalents per liter  
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 25, 1984

Mountain Fuel Supply Co.  
P. O. Box 11070  
Salt Lake City, Utah 84147

RE: Well No. Piute Knoll #1  
API #43-037-30097  
Sec. 26, T. 33S, R. 25E.  
San Juan County, Utah

Well No. Piute Knoll #2  
API #43-037-30127  
Sec. 22, T. 33S, R. 25E.  
San Juan County, Utah

Gentlemen:

We have reason to believe the above referred to wells are plugged and abandoned, however, this office has not received a "Sundry Notice" of subsequent abandonment.

Rule D-2 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

Within thirty (30) days after the plugging of any well has been accomplished, the owner or operator thereof shall file a plugging report with the Division. The report shall give a detailed account of the manner in which the plugging work was carried out, including the nature and quantities of materials used in plugging, and the location and extent (by depths) of the plugs of different materials; records of any tests or measurements made and the amount, size and location (by depths) of casing left in the well; and statement of the volume of mud fluid used. If an attempt was made to part any casing, a complete report of the method used and results obtained must be included.

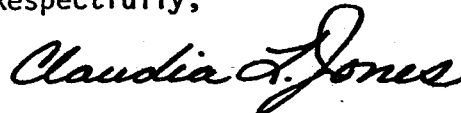
Enclosed is the necessary "Sundry Notice" form for your convenience in fulfilling these requirements. Please submit the completed form to this office as soon as possible.

May 25, 1984

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones  
Well Records Specialist

CLJ/cj

Enclosures

cc: Dianne R. Nielson, DOGM  
Ronald J. Firth, DOGM  
file



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 30, 1984

Celsius Energy Company  
P.O. Box 458  
Rock Springs, Wyoming 82902

## 2nd NOTICE

Gentlemen:

Re: Well No. Piute Knoll #2 - Sec. 22, T. 33S., R. 25E.  
San Juan County, Utah - API #43-037-30127

We have reason to believe the above referred to well is plugged and abandoned, however, this office has not received a "Sundry Notice" of subsequent abandonment. We made a previous request for this information in a letter dated May 25, 1984.

Rule D-2 of The Oil and Gas Conservation General Rules and Regulations and Rules and Practice and Procedure states:

Within thirty (30) days after the plugging of any well has been accomplished, the owner or operator thereof shall file a plugging report with the Division. The report shall give a detailed account of the manner in which the plugging work was carried out, including the nature and quantities of materials used in plugging, and the location and extent (by depths) of the plugs of different materials; records of any tests or measurements made and the amount, size and location (by depths) of casing left in the well; and statement of the volume of mud fluid used. If an attempt was made to part any casing, a complete report of the method used and results obtained must be included.

Page 2  
Celsius Energy Company  
Well No. Piute Knoll #2  
October 30, 1984

Enclosed is Form OGC-1b, "Sundry Notices and Reports on Wells", for you to complete and return to this office in order to bring this well into compliance with the above stated rule.

**\*\*You are in violation of the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to this matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.**

Respectfully,



Norman C. Stout  
Administrative Assistant

clj

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
00000011/9-10



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

PRINT IN TRIPLICATE\*  
then instructions on  
reverse side)

# SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

---

7. UNIT AGREEMENT NAME

---

8. FARM OR LEASE NAME

Piute Knoll

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Piute Knoll

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

NE SW 22-33S-25E, SLB&amp;M

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

1.

OIL ☐ GAS ☐  
WELL ☐ WELL ☒ OTHER

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 458, Rock Springs, WY 82902

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

NE SW, 1980' FSL, 1980' FWL

14. PERMIT NO.

API 43-037-30127

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

KB 6852.30'

GR 6839'

16.

## Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☒
(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

As of May 26, 1974, the above well was plugged and abandoned as follows:

Plug No. 1: 5890-5470' with 35 sacks cement  
Shot 4-1/2-inch casing at 4200 feet and recovered casing.  
Plug No. 2: 4250-4150' with 25 sacks cement  
Plug No. 3: 2935-2835' with 35 sacks cement  
Cut 8-5/8-inch casing at 600' and recovered casing.  
Plug No. 4: 700-570' with 65 sacks cement  
Plug No. 5: 538-438' with 55 sacks cement  
Plug No. 6: Ten sacks into top of 10-3/4-inch surface casing.

A regulation abandonment marker was installed and location cleaned.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11/26/84

BY: John R. Bay

18. I hereby certify that the foregoing is true and correct

SIGNED: Thomas M. Wells

TITLE Director, Petroleum Engineering DATE 11-7-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: